

The First Year of the ANPhA (AAPPS-DNP) Awards for Young Scientists

KAZUHIRO TANAKA

CHAIR OF ANPhA, THE ASIAN NUCLEAR PHYSICS ASSOCIATION AND
THE DIVISION OF NUCLEAR PHYSICS OF THE ASSOCIATION OF ASIA PACIFIC PHYSICS SOCIETIES

2017 was memorable for ANPhA, the Asian Nuclear Physics Association, which represents nuclear physics in the Asia Pacific region and plays a role as the Division of Nuclear Physics of AAPPS (Association of Asia Pacific Physics Societies), because we were able to actualize our long-held goal to provide awards for young scientists in order to encourage them in their research objectives. This report focuses on the first year of the ANPhA (AAPPS-DNP) Awards for Young Scientists.

ANPhA was established in 2009 in Beijing, where representatives of the first four member countries of ANPhA gathered together in a founding meeting. From its outset, ANPhA desired to create a system to encourage young researchers in the Asia Pacific region, and to establish awards for them; however, this idea was not immediately realized. One of the main problems was the lack of resources to fund award money.

In 2016, ANPhA decided to play a role as the Division of Nuclear Physics (DNP) of AAPPS. AAPPS approved our proposal, and AAPPS-DNP was established. Subsequently, we started the ANPhA (AAPPS-DNP) Awards for Young Scientists, with financial support from AAPPS, which served as the first source of the award money. So far, ANPhA has co-hosted international conferences and schools held in the Asia-Pacific region (which have been designated as ANPhA conferences and/or ANPhA schools) several times a year. In the process of creating the award, we asked conference/school organizers to create a system to select awardees. In 2017, we had three events where the ANPhA (AAPPS-DNP) awards were given to young scientists:

- 1) The 16th CNSSS (Center for Nuclear Study Summer School)
<https://indico2.cns.s.u-tokyo.ac.jp/event/8/>
held Aug. 23-29, 2017 at the RIKEN Wako campus (one 1st rank winner);
- 2) ISPUN17 (the International Symposium of Physics of Unstable Nuclei)
<https://ispun.vn/> held Sept. 15-30, 2017 at Halong Bay, Vietnam (one 1st rank winner, one 2nd rank winner, one 3rd rank winner); and
- 3) SNP School 2017 (International School on Strangeness Nuclear Physics)
<http://www.rcnp.osaka-u.ac.jp/~snp2017/index.html>
held Dec. 14-15, 2017 at the Tokai-mura campus of J-PARC/KEK (one 1st rank winner, one 2nd rank winner).

The memorable first ANPhA (AAPPS-DNP) Award for Young Scientists was given at CNSSS on Aug. 29, 2017 to Mr. Yasuhiro Ueno (University of Tokyo) for his presentation entitled “Precision Test of Bound-State QED via the Spectroscopy of Muonium Hyperfine Structure”, as previously reported¹.

ANPhA (AAPPS-DNP) awards were next given at ISPUN17 on Sept. 30, 2017 to the three winners listed below:

1. Jack Bishop (University of Birmingham): First Rank, for his presentation entitled “Experimental investigation of alpha-gas signatures”.

¹ AAPPS Bulletin 27 (5), 39 (2017).



Fig 1: Yasuhiro Ueno (left) and Dr. Tohru Motobayashi (right) at CNSSS.

2. Martha Liliana Cortés (RIKEN): Second Rank, for her presentation entitled “Shell evolution for $N=40$ isotones towards ^{60}Ca : First spectroscopy of ^{62}T ”.
3. Shun Furusawa (RIKEN): Third Rank, for his presentation entitled “Equations of state including full nuclear ensemble and weak interaction rates in core-collapse supernovae”.



Fig 2: Dr. Dao Tien Khoa, organizer of ISPUN17, Jack Bishop, Martha Liliana Cortés, Shun Furusawa and Dr. Kazuhiro Tanaka (from left to right) at ISPUN17.

Awards were also given to two young researchers at SNP School 2017 on Dec. 15, 2017². The awardee of the first rank is listed below:

² see also the SNP School report in the APCTP section of this issue.

Yuichi Toyama (Tohoku Univ.): First Rank ANPhA award, for his presentation entitled “Lifetime measurement project of hypernuclei at ELPH”. Toyama also received the Hashimoto Prize, in honor of Prof. Osamu Hashimoto, the founder of this school. The Hashimoto Prize is given to the ANPHA-DNP awardee in the 1st rank.



Fig 3: Yuichi Toyama at SNP 2017 School.

School Incentive Prizes went to four other students. The ANPhA award of the second rank went to the best presentation among the ones given by the four students. Masaaki Tokieda (Tohoku Univ.) won for his presentation entitled “Quantum tunneling with friction for heavy-ion fusion reactions”.



Fig 4: Masaaki Tokieda at SNP 2017 School.

In 2017, we spent about 50,000 JPY in total for the award money. We expect to continue the awards for two or three more years with the startup fund for DNP from AAPPS. To further continue the awards for young scientists, ANPhA (AAPPS-DNP) is looking for external sources.

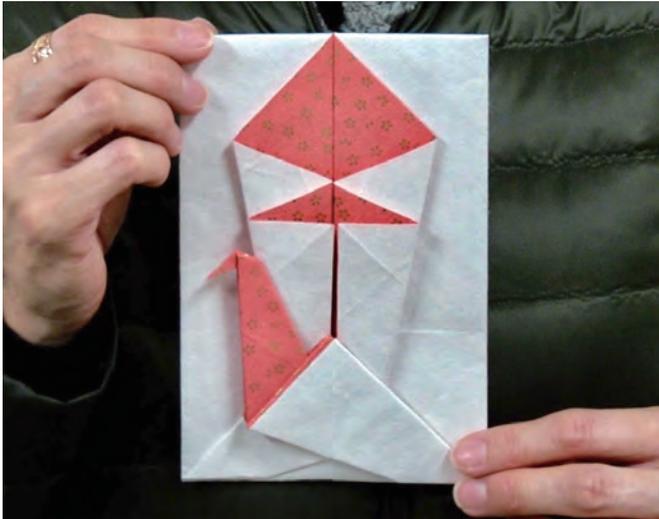


Fig 5: Origami money envelope created by Mr. Matsunobu Wada for the award ceremony at SNP School 2017.

In the end of this summary report, I would like to show a picture of an envelope. It was folded from one sheet of paper (origami) by Mr. Matsunobu Wada, a well-known amateur artist who is also a neighbor living next to J-PARC. The two award winners from SNP School 2017 received their award money wrapped in such envelopes, kindly provided by Mr. Wada.

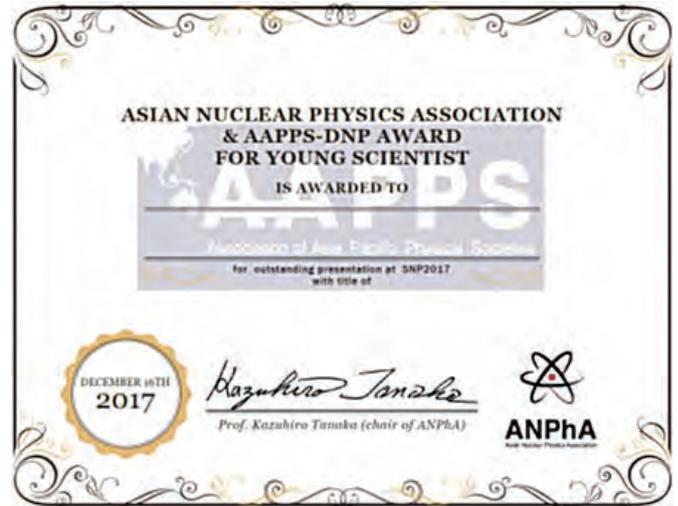


Fig 6: The Certificate of the ANPhA (AAPPS-DNP) Award for Young Scientists. This certificate was designed by Prof. Nobuaki Imai of CNS (Center for Nuclear Study, University of Tokyo).

Finally I thank AAPPS for supporting the creation and funding of the ANPhA (AAPPSA-DNP) Award for Young Scientists.